NAVSUP

NAVAL INVENTORY CONTROL POINT

ICP-Philadelphia SNT Training

UNITED STATES NAVY SERIAL NUMBER TRACKING

SNT

SNT

www.snt.navsup.navy.mil

Ready. Resourceful. Responsive!

Matt Mullins
CDR, USN
4-5 May 2004

How SNT Got Started

Aviation Maintenance-Supply Readiness (AMSR) Review – 1998

Challenge:

- **Lower Maintenance & Supply Cost**

- **Increase Readiness**

System Concept

Definition:

Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology (AIT)

Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

SNT System Goals

Major Benefits

Maintenance

- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Losses
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

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SNT Foundation

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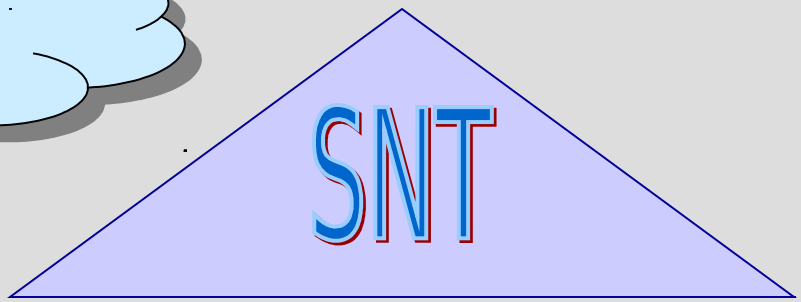
Implementation

SNT requires two components



FIRST

Live access to databases via the SNT Web-enabled portal.

Data Base Access

- WMRIL/A-ORS
- eRMS/WMPS
- UICP
- WEB-CAV
- CAV-ORM
- CAV-Navy
- FACTS
- OOMA/OIMA
- R-Supply
- IBS

AIT

- CMB
- 2D Data matrix
- PDF417 2D
- ISO15418/15434
- MIL-STD-129
- MIL-STD-130
- MSL
- IRRD

SECOND

Automatic Identification Technology (AIT) is used by SNT to maintain data accuracy.

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Aviation Asset/Information Flow

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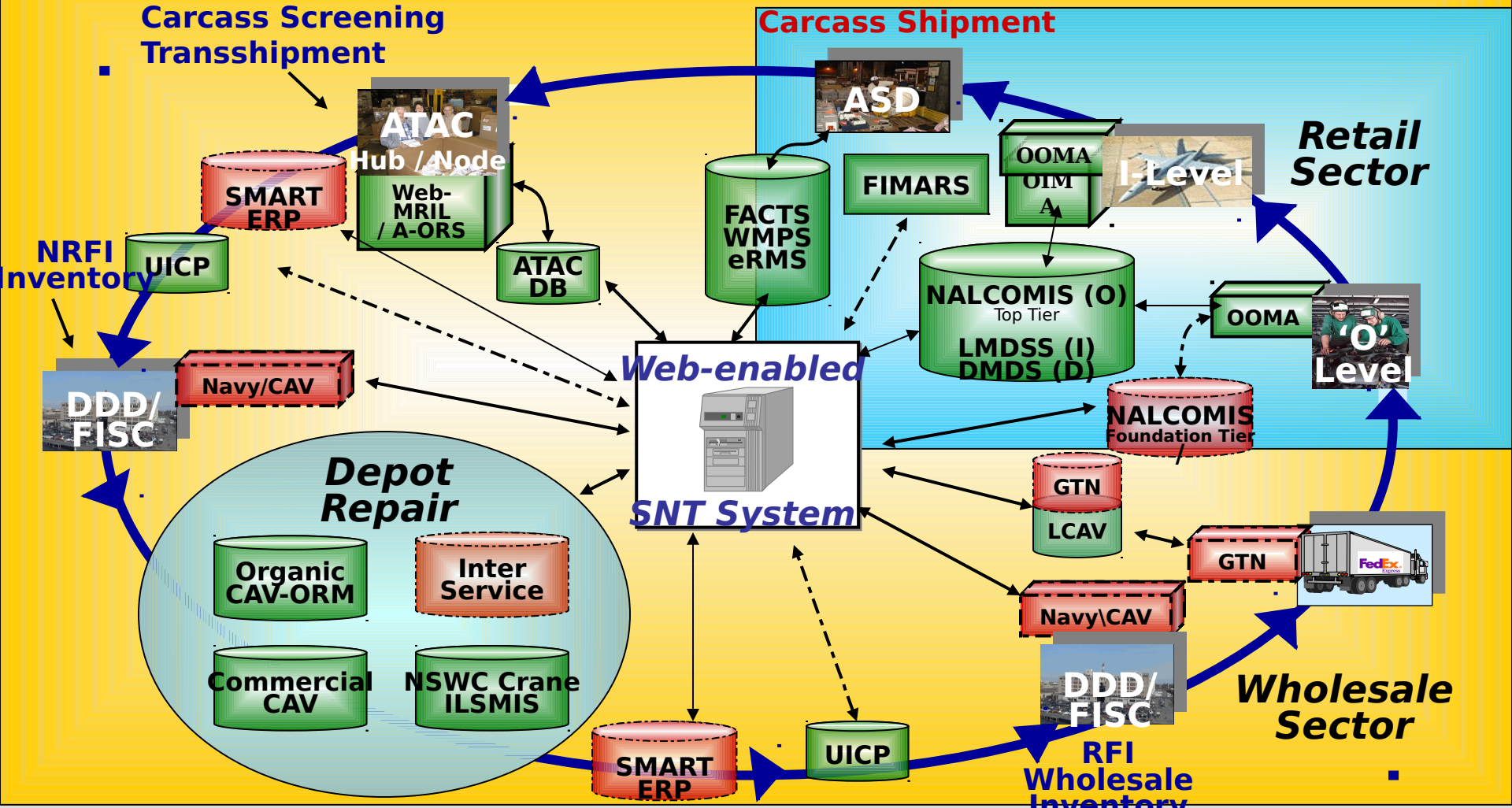
Overview

Information Systems



Connectivity | Not Connected | S/N | No S/N | Asset Flow

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CMB

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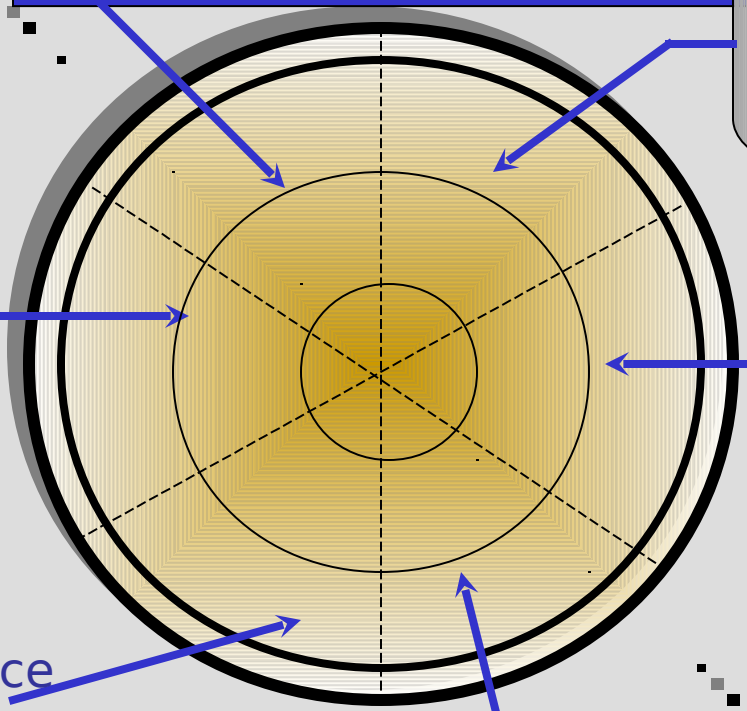
AIT

Contact Memory Button (CMB)

Scheduled Removal Component Card

Computer, Air Data CPU-175/A
P/N 50-100-01 SERNO 0152
MFR K0656 CONTR F33657-85C-0025



Maintenance History**

Warranty Data

CMB Stats:
- 2k,8k,32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader $1200

**Use TBD within aviation maintenance

Available for Vendor Use

Available for Future Navy Use

Demonstrations

- H-60/HSL-40
- SCADC
- SQQ-32 SONAR
- HOSS Camera (AN/SXY-1)
- CAMS II A5 MODULE on SUBMARIN

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SNT Web Tool Applicability in the ICP

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- **Carcass Tracking**
  - ✓ Retrograde Query (Tracks from turn-in to repair/sto
  - ✓ Unmatched Retrograde items
  - ✓ Carcass Watch/Automatic Email
- **Warranty Tracking**
  - ✓ Warranty Tracking/Automatic Email to IM's capability through Web-CAV link
- **Depot Repair Visibility**
  - ✓ Organic/Commercial
  - ✓ Interservice Repair (Future)
- **Reliability**
  - ✓ Reliability Query Tool (S/N visibility)

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SNT Web Tool Applicability in the ICP

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- **Bad Actor Identification**
  - ✓ To P/N and S/N level
  - ✓ Assist in overhaul/disposal decision making
- **Documentation Retrieval**
  - ✓ MAF paperwork
  - ✓ SRC Cards (Future)
- **Inventory**
  - ✓ NSN visibility (Current)
  - ✓ DLA warehouse visibility to

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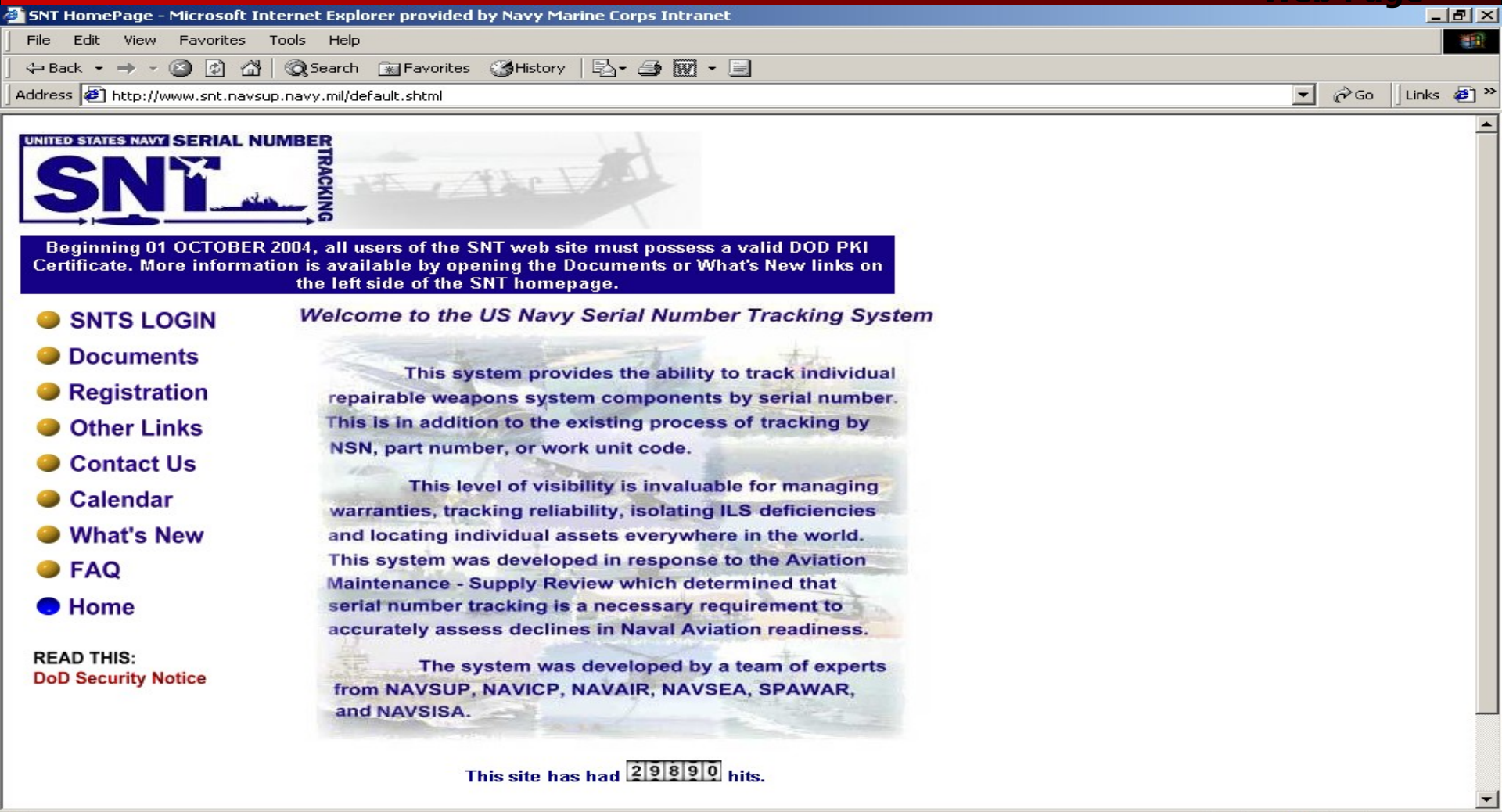
SNT Homepage

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Web Page


SNT HomePage - Microsoft Internet Explorer provided by Navy Marine Corps Intranet
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://www.snt.navsup.navy.mil/default.shtml
Go Links
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Beginning 01 OCTOBER 2004, all users of the SNT web site must possess a valid DOD PKI Certificate. More information is available by opening the Documents or What's New links on the left side of the SNT homepage.
SNTS LOGIN
Documents
Registration
Other Links
Contact Us
Calendar
What's New
FAQ
Home
READ THIS:
DoD Security Notice
Welcome to the US Navy Serial Number Tracking System
This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.
This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.
The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and NAVSISA.
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Pitches
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SNT Applications To Cost-Wise Readiness

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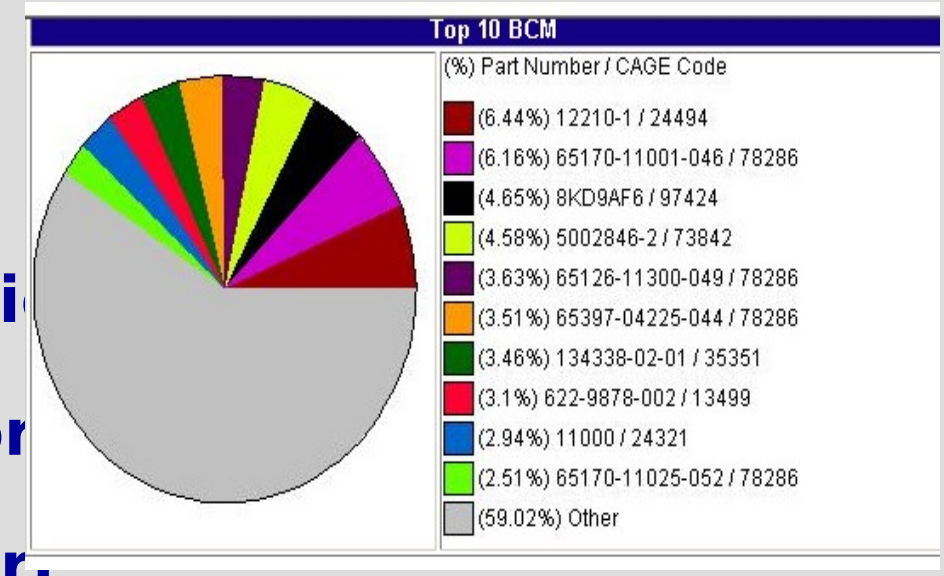
Decision Support

- Highest BCM Report
- Highest Cannibalizati
- Highest Failure Repor
- No Fault Found Repor
- Top Cost Drivers
- Top Degraders
- Analytical Report



	Part Number	CAGE Code	CAGE Name	Serial Number	Total I-Level BCMs
11	12210-1	24494	GENERAL NUCLEONICS INC	2991	2
12	12210-1	24494	GENERAL NUCLEONICS INC	2596	2
13	12210-1	24494	GENERAL NUCLEONICS INC	250	2
14	12210-1	24494	GENERAL NUCLEONICS INC	2376	2
15	12210-1	24494	GENERAL NUCLEONICS INC	2313	2

SNT Applications To Cost-Wise Readiness

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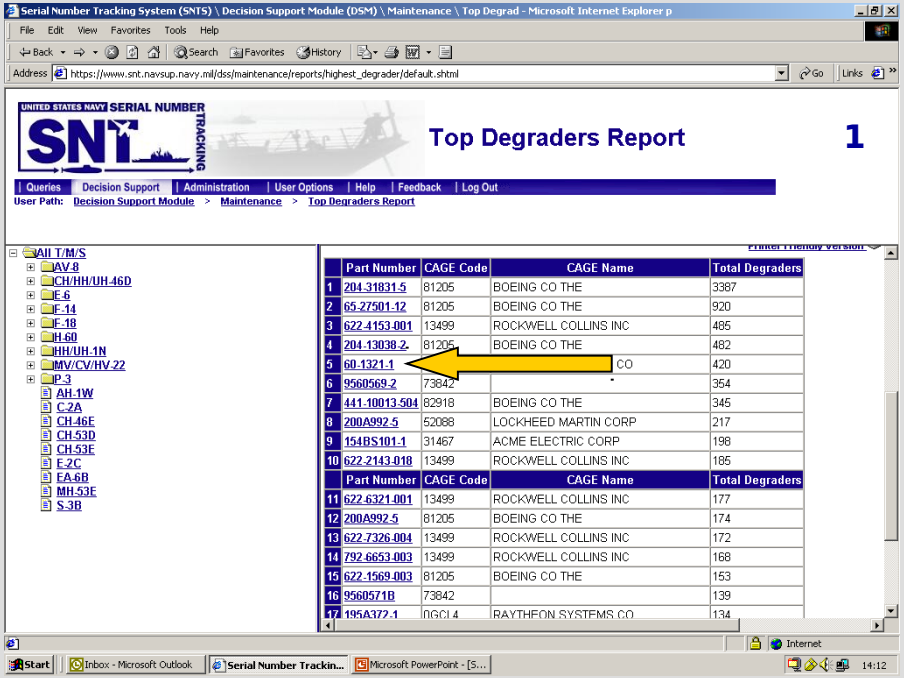
Serial Number Tracking System (SNTS) \ Decision Support Module (DSM) \ Maintenance \ Top Degrad - Microsoft Internet Explorer p
https://www.snt.navsup.navy.mil/dss/maintenance/reports/highest_degrader/default.shtml
Top Degraders Report
1
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
User Path: Decision Support Module > Maintenance > Top Degraders Report
All T/M/S
AV-8
CH/HH/UH-46D
E-6
F-14
F-18
H-60
HH/UH-1N
MV/CV/HV-22
P-3
AH-1W
C-2A
CH-46E
CH-53D
CH-53E
E-2C
EA-6B
MH-53E
S-3B
Part Number | CAGE Code | CAGE Name | Total Degraders
1 204-31831-5 | 81205 | BOEING CO THE | 3387
2 65-27501-12 | 81205 | BOEING CO THE | 920
3 622-4153-001 | 13499 | ROCKWELL COLLINS INC | 485
4 204-13038-2 | 81205 | BOEING CO THE | 482
5 60-1321-1 | CO | 420
6 9560569-2 | 73842 | 354
7 441-10013-504 | 82918 | BOEING CO THE | 345
8 200A992-5 | 52088 | LOCKHEED MARTIN CORP | 217
9 154BS101-1 | 31467 | ACME ELECTRIC CORP | 198
10 622-2143-018 | 13499 | ROCKWELL COLLINS INC | 185
Part Number | CAGE Code | CAGE Name | Total Degraders
11 622-6321-001 | 13499 | ROCKWELL COLLINS INC | 177
12 200A992-5 | 81205 | BOEING CO THE | 174
13 622-7326-004 | 13499 | ROCKWELL COLLINS INC | 172
14 792-6653-003 | 13499 | ROCKWELL COLLINS INC | 168
15 622-1569-003 | 81205 | BOEING CO THE | 153
16 9560571B | 73842 | 139
17 195A372-1 | 0GGL4 | RAYTHEON SYSTEMS CO | 134
Internet
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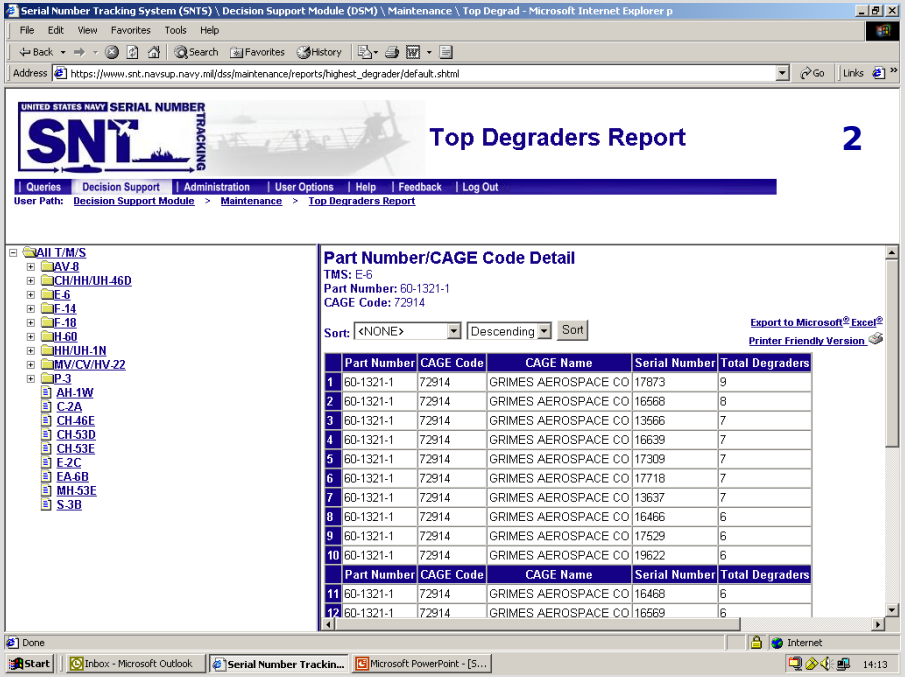
Serial Number Tracking System (SNTS) \ Decision Support Module (DSM) \ Maintenance \ Top Degrad - Microsoft Internet Explorer p
https://www.snt.navsup.navy.mil/dss/maintenance/reports/highest_degrader/default.shtml
Top Degraders Report
2
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
User Path: Decision Support Module > Maintenance > Top Degraders Report
All T/M/S
AV-8
CH/HH/UH-46D
E-6
F-14
F-18
H-60
HH/UH-1N
MV/CV/HV-22
P-3
AH-1W
C-2A
CH-46E
CH-53D
CH-53E
E-2C
EA-6B
MH-53E
S-3B
Part Number/CAGE Code Detail
TMS: E-6
Part Number: 60-1321-1
CAGE Code: 72914
Sort: <NONE> Descending Sort
Export to Microsoft® Excel®
Printer Friendly Version
Part Number | CAGE Code | CAGE Name | Serial Number | Total Degraders
1 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 17873 | 9
2 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 16568 | 8
3 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 13566 | 7
4 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 16639 | 7
5 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 17309 | 7
6 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 17718 | 7
7 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 13637 | 7
8 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 16466 | 6
9 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 17529 | 6
10 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 19622 | 6
Part Number | CAGE Code | CAGE Name | Serial Number | Total Degraders
11 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 16468 | 6
12 60-1321-1 | 72914 | GRIMES AEROSPACE CO | 16569 | 6
Done
Internet
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SNT Applications To Cost-Wise Readiness

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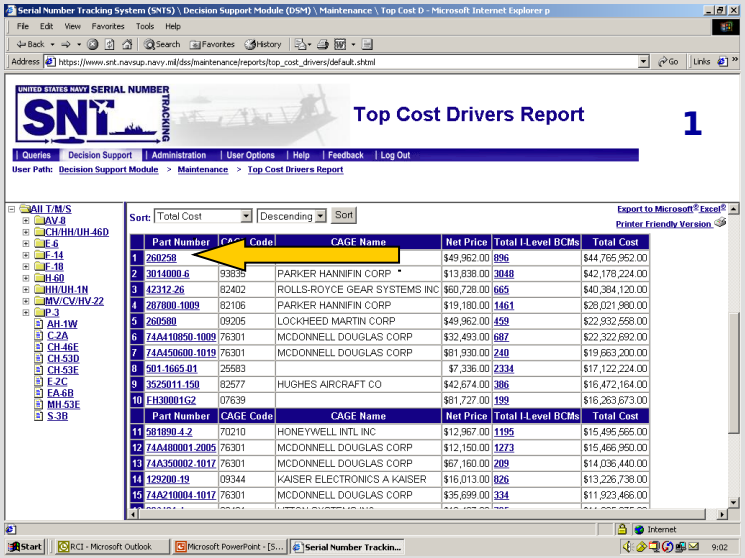
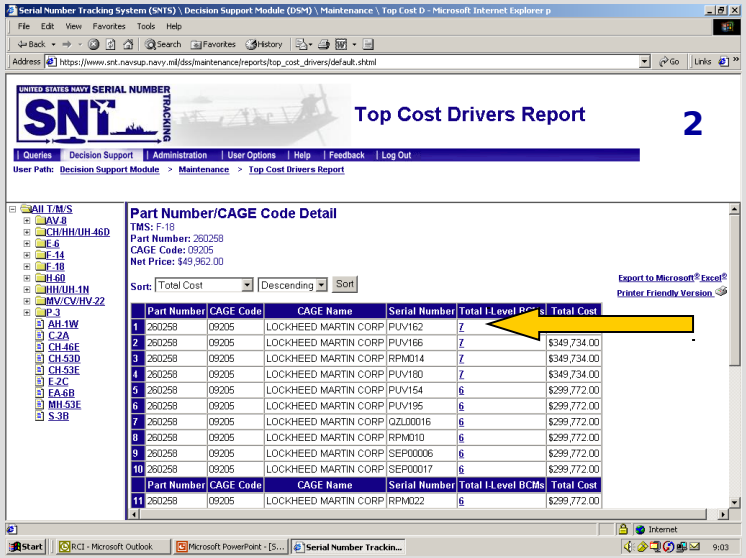
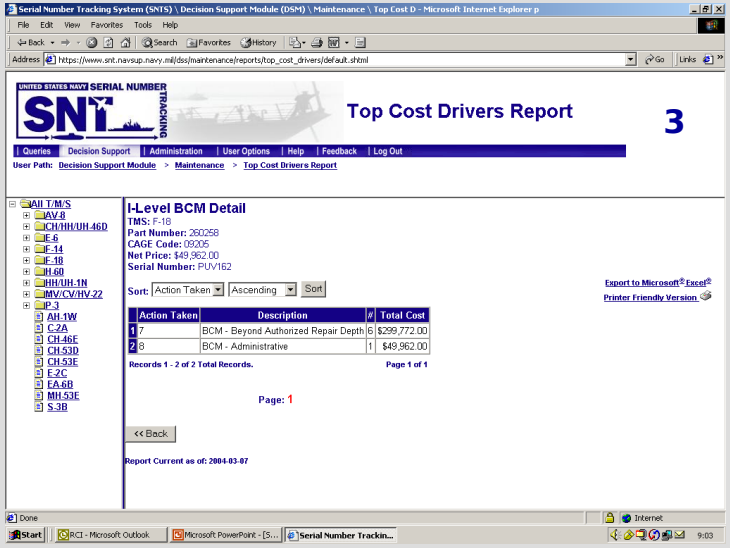



Top Cost Drivers Report
2
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
User Path: Decision Support Module > Maintenance > Top Cost Drivers Report
Part Number/CAGE Code Detail
TMS: F-18
Part Number: 260258
CAGE Code: 09205
Net Price: $49,962.00
Sort: Total Cost Descending Sort
Export to Microsoft® Excel®
Printer Friendly Version
Part Number | CAGE Code | CAGE Name | Serial Number | Total I-Level BCMs | Total Cost
1 260258 09205 LOCKHEED MARTIN CORP PUV162 7
2 260258 09205 LOCKHEED MARTIN CORP PUV166 7 $349,734.00
3 260258 09205 LOCKHEED MARTIN CORP RPM014 7 $349,734.00
4 260258 09205 LOCKHEED MARTIN CORP PUV180 7 $349,734.00
5 260258 09205 LOCKHEED MARTIN CORP PUV154 6 $299,772.00
6 260258 09205 LOCKHEED MARTIN CORP PUV195 6 $299,772.00
7 260258 09205 LOCKHEED MARTIN CORP QZL00016 6 $299,772.00
8 260258 09205 LOCKHEED MARTIN CORP RPM010 6 $299,772.00
9 260258 09205 LOCKHEED MARTIN CORP SEP00006 6 $299,772.00
10 260258 09205 LOCKHEED MARTIN CORP SEP00017 6 $299,772.00
Part Number | CAGE Code | CAGE Name | Serial Number | Total I-Level BCMs | Total Cost
11 260258 09205 LOCKHEED MARTIN CORP RPM022 6 $299,772.00


Top Cost Drivers Report
3
Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
User Path: Decision Support Module > Maintenance > Top Cost Drivers Report
I-Level BCM Detail
TMS: F-18
Part Number: 260258
CAGE Code: 09205
Net Price: $49,962.00
Serial Number: PUV162
Sort: Action Taken Ascending Sort
Export to Microsoft® Excel®
Printer Friendly Version
Action Taken | Description | # | Total Cost
1 7 BCM - Beyond Authorized Repair Depth 6 $299,772.00
2 8 BCM - Administrative 1 $49,962.00
Records 1 - 2 of 2 Total Records.
Page 1 of 1
Page: 1
<< Back
Report Current as of: 2004-03-07

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Retrograde

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SNTS \ Asset Visibility \ Retrograde - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

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Retrograde

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out

Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty

Search Criteria

Serial Number:

Document Number: V033654035GX06

UIC / DODAAC:

NIIN:

Lead TCN:

Search Reset

<< Back to Asset Visibility

Submit a Batch Query

Retrograde Results > Document Number Tracking Detail

Export to Microsoft® Excel®

Printer Friendly Version

	Origin	xShip / ATAC Hub or Node	xShip / ATAC Hub or Node	DOP/DSP
Document Number	V033654035GX06	V033654035GX06	V033654035GX06	V033654035GX06
NIIN	T700GE401		T700GE401	T700GE401
Serial Number	366808			
Quantity	1	1	1	1
Condition Code	F	F	F	F
Activity	V03365	N3309A ATAC AGENT US AIR SIGONELLA	N68620 FLEET INDUSTRIAL SUPPLY CENTER	N00188 NAVAL AIR STATION
Date Received	N/A	18 Feb 2004	04 Mar 2004	08 Mar 2004
Ship To	N00188 NAVAL AIR STATION	N68620 FLEET INDUSTRIAL SUPPLY CENTER	N00188 NAVAL AIR STATION	N/A
Date Shipped			08 Mar 2004	N/A
LTCN	N/A	V033654035GX06RXX	V033654035GX07XXX	N/A
Transportation Mode	N/A	F - Air, Air Mobility Command	T - Air, Air Freight Forwarder	N/A
RCDN	N/A	N/A	N/A	
Signature	N/A			L.A.TOMLINSON
(Data Source)	WMPS	ATAC	ATAC	ATAC/CAV

Engine

Internet

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Future SNT Capabilities

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- Visibility of Serial Number in DLA warehouses
- Visibility of Navy Assets held at interservice activities
- Establish capability to include S/N Info W/ ERP
- Access to Transportation Data (GTN)
- Capability to Issue by Serial Number?
- Establish a Serial Number Watch?
- Expanded Decision Support (DS) Capabilities

Back-up Slides

Back up Slides

Shipboard Asset/Information Flow

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Information Systems

System Access

Carcass Screening
Transshipment

Carcass Shipment

NRFI
Inventory

ATAC

SIMA

Shipboard
Supply

CDMD-OA

(O)-Level

Retail
Sector

Web-
MRIL
/ A-ORS

(Future)
NEMAIS

UICP

FACTS
WMPS
eRMS

OMMS

3M
DB

ATAC
DB

R-
Supply

Shipboard
Inv

DDD/
FISC

Navy/CAV

Web-enabled

FIMARS

SNT System

Depot
Repair

Organic
CAV-ORM

Inter
Service

Commercial
CAV

NSWC Crane
ILSMIS

GTN
LCAV

GTN

Navy\CAV

DDD/
FISC

UICP

Wholesale
Sector

Connectivity | Not Connected | S/N | No S/N | Asset Flow

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Unique Identification (UID)

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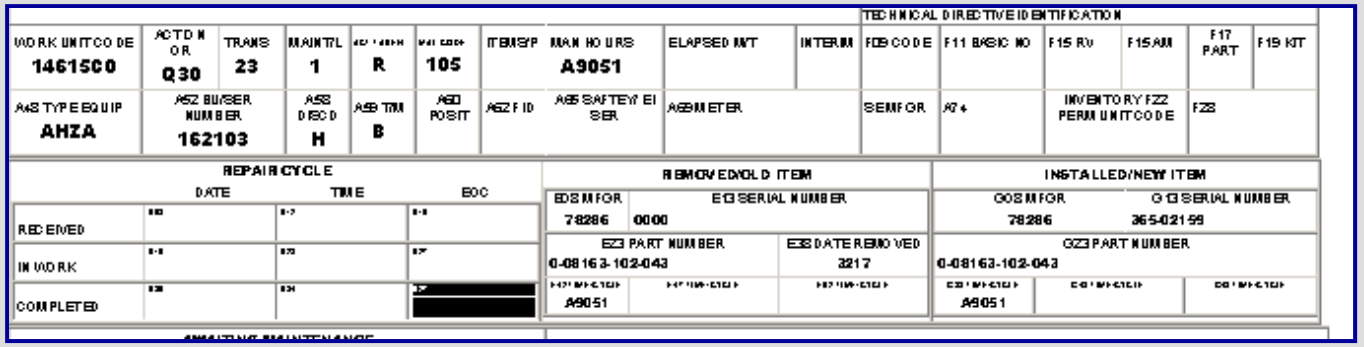
- UID consists of CAGE, P/N, S/N. Be able to create UID (w
- Groundwork laid by many databases accessed by SNTS
- Requirement to be added to contracts as policy develop



CAGE	Part Number	Serial Number
78286	G0816102043	365-02519
68286	G0816102043	365-02520

Unique Identifier
D178286G081610204336502519

Data Matrix/UID Marking

AC D1 — CAGE 78286 — Part Number G0816102043 — Serial Number 36502519